	Application No.	Applicant(s)
Notice of Allowability	10/618,012	TOYOZAWA ET AL.
	Examiner	Art Unit
	Steven E. Holton	2629
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed on 5/15/2007</u> .		
2. The allowed claim(s) is/are 4,6 and 8.		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	<u>·</u>	
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	e
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> <li>Paper No./Mail Date</li> </ol>	7.   Examiner's Amendn	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ul><li>8. ⊠ Examiner's Stateme</li><li>9. □ Other</li></ul>	nt of Reasons for Allowance
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## **DETAILED ACTION**

1. This Office Action is made in response to applicant's amendment filed on 5/15/2007. Claims 4, 6, and 8 are currently pending in the application. An action follows below:

## Allowable Subject Matter

2. Claims 4, 6, and 8 are allowed.

The following is an examiner's statement of reasons for allowance:

The invention is drawn to a liquid crystal display device with two methods of removing charge from pixels when power is turned off. The two methods of removing power from the display are operating a power-off switch or removing a battery power supply. Depending on the method of power supply removal a different method of power off operation is used.

Claims 6 and 8 identify a display device and method of operation using two methods of removing power from the display. The claims identify the unique feature of associating the different methods of removing charge from pixels in a display based on different methods of removing power from the display, the methods of using power associated with the operation of a power-off button and the removal of a battery power supply. The closest prior art Yasui and Yanagisawa disclose two methods of removing charge from liquid crystal display devices, but alone or in combination, fail to anticipate or render obvious the underlined limitations.

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Claim 4 discloses with a control means capable of operating a display device with different methods of removing charge from pixels of the display utilizing two power off states. The claim identifies the unique feature of combining a control circuit able to provide a method of removing charge from pixels in the display with a precharge scanning circuit able to provide precharge signals to pixels during normal operation of the display. The closest prior art, Yasui, Yanagisawa, and Everitt (USPN: 6954606) discloses methods of removing charge from pixels in a display and a pre-charge driving circuit, but singly or in combination fail to render the underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven E. Holton whose telephone number is (571) 272-7903. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Steven E. Holton Division 2629 June 7, 2007

SUPERVISORY PATENT EXAMINER